

QP CODE: 3326

Reg. No:.....

First Pharm D Degree Supplementary Examinations - April 2012

MEDICINAL BIOCHEMISTRY

Time: 3 Hours

Total Marks: 70

- **Answer all questions**
- **Write equations, draw diagrams wherever necessary**

Essay: (2x10=20)

1. Explain in detail the TCA cycle with a note on energetics.
2. Describe the process of DNA replication in prokaryotes.

Write Short Notes: (10x3=30)

3. What are isoenzymes. Mention the diagnostic application of any one isoenzyme.
4. Write a brief note on atherosclerosis.
5. Mention the importance of gluconeogenesis.
6. HGPRT
7. ELISA
8. Creatinine clearance test.
9. What are lipoproteins. Write briefly on the structure and classification of lipoproteins.
10. Mention the various functions of liver.
11. What is phenylketonuria and how it is caused.
12. What is the biological significance of cyclic AMP.

Answer briefly: (10x2=20)

13. Uncouplers of ETC.
14. Genetic code.
15. Classify high energy compounds.
16. Mention the different stages of β -oxidation.
17. Hypercholesterolemia.
18. Transport process across the cell.
19. HMP Shunt
20. Transamination.
21. Mitochondria.
22. Treatment of dehydration.
